On the Scattering Mechanism of Carriers in Some Solid SOV/181-1-9-1/31 Solutions on the Basis of Lead- and Bismuth Tellurides

time is by way of approximation inversely proportional to temperature, which is in contradiction with the theory. It is explained by the fact that triple collisions (electron - impurity atom - phonon) may occur in a lattice containing impurities. Theoretical investigations were conducted by T. A. Kontarova. There are 19 figures and 4 Soviet references.

ASSOCIATION:

Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors of the AS USSR, Leningrad)

SUBMITTED:

May 19, 1959

Card 4/4

VINOGRADOVA, M.N.; GOLIKOVA, O.A.; YEFIMOVA, B.A.; KULASOV, V.A.; STAVITSKAYA, T.S.; STIL'BANS, L.S.; SYSOYEVA, L.M.

Scattering mechanism of carriers in some semimetals. Fiz. tver. tela 1 no.9:1333-1344 S '59. (MIRA 13:3)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Electrons-Scattering) (Semiconductors)

28093 s/181/61/003/009/027/039 B104/B102

24,7600 (1043,1160,1537)

Yefimova, B. A., Korenblit, I. Ya., Novikov, V. I., and

Anisotropy of galvanomagnetic properties of p-type Bi2Te3 TITLE:

PERIODICAL: Fizika tverdogo tela, v. 3, no. 9, 1961, 2746-2760

TEXT: The galvanomagnetic effects of p-type bismuth telluride have been studied between 4-290°K. This material is well suited for the production of thermocouples. The results were analyzed using the model suggested by J. R. Drabble et al. (Refs. 1-4, 17, see below). The single crystals were grown by Chokhral'skiy's method and that of G. I. Shmelev and S. V. Ayrapetyants (FTT, II, 4, 1960). Two types of samples have been used; the third-order axis of one sample coincided with its longitudinal axis and the third-order axis of the other was vertical to its longitudinal axis. The electrical conductivity σ_{ij} , the Hall coefficient ϱ_{ijk} , and the reluctance

Qijkl were measured by a d-c compensation method in a constant magnetic The temperature of the samples was measured with cryper-constantan field, Card 1:/4

28093 8/181/61/003/009/027/039 B104/B102

Anisotropy of galvanomagnetic ...

thermocouples. Their sensitivity at helium temperature was 4-5 $\mu\nu/^{\circ}K$ and at room temperature 40 $\mu\nu/^{\circ}K$. Measurements and results are discussed in detail. The galvanomagnetic properties of p-type Bi $_2$ Te $_3$ indicate that the model suggested by Drabble et al. for the isoenergetic surfaces is correct between 4 and 290°K. In the range where only one scattering mechanism of the carriers predominates (scattering from acoustic phonons or impurities), the tensor of the relaxation time can be written as $\tau_{ij} = a_{ij} \mathbf{y}(\mathbf{E})$. The coefficients a_{ij} are functions of temperature. For the whole temperature interval it can be assumed that $\tau_{13} \approx 0$. The anomaly of the Hall effect is caused by the change of a_{ij} when the scattering of the carriers by acoustic phonons changes over to scattering by impurities. The temperature dependences of the carrier mobility μ_0 , which have been determined from the "isotropic" electrical conductivity and the "isotropic" magnetic conductivity, are in agreement. At room temperature $u \sim T^{-1.7}$; at lower temperatures, the slope of the straight line ln $u_0 = f(\log T)$ decreases considerably. The changes of the anisotropy parameters $w_1 = \frac{m_2 \tau_{11}}{m_1 \tau_{22}}$ and $w_2 = \frac{m_2 \tau_{23}}{m_2 \tau_{22}}$ are explained by the transition of scattering from Card $\frac{2}{4}$

28093 S/181/61/003/003/027/039 B104/B102

Anisotropy of galvanomagnetic ...

The temperature dependence of the phonons to scattering from impurities. anisctropy parameters confirms that the model is valid for all temperatures. An estimation of the anisotropy of the relaxation time for scattering from impurities shows that it is not very large. This fact is explained by the lack of anisotropy in the thermo-emf for mixed scattering. The galvanomagnetic coefficients of p-type Bi2Te3 can be calculated by using empirical parameters and equations published by I. Ya. Korenblit, in FTT, II, 12, 3083, 1960. Two variants of the energy spectrum are determined therefrom. The test results obtained are not sufficient to decide which is the correct variant. The authors thank A. G. Samoylovich, L. S. Stillbans, and S. S. Shalyt for interest and advice. There are 10 figures, 2 tables, and 22 references: 8 Soviet and 14 non-Soviet. The five most important references to English-language publications read as follows: J. R. Drabble et al., Ref. 1: Proc. Phys. Soc., 69, 1101, 1956; Ref. 2: Proc. Phys. Soc., 71, 3, 1958; Ref. 3: Proc. Phys. Soc., 72, 380, 1958; Ref. 4: J. Phys. Chem. Soc., 8, 428, 1959; Ref. 17: J. Electr. a. Contr., 3, 3, 1957.

Card 3/4

25093 S/181/61/003/009/027/039 B104/B102

Anisotropy of galvanomagnetic ...

ASSOCIATION: Institut polupro

Institut poluprovodnikov AN SSSR Leningrad (Institute of

Semiconductors, AS USSR, Leningrad)

SUBMITTED:

April 29, 1961

Card 4/4

S/181/62/004/001/024/052 B108/B104

9.4174 (1043,1482,1114)

Yefimova, B. A., Kel'man, Ye. V., and Stil'bans, L. S.

AUTHORS:

Mechanism of scattering from impurity ions in Bi Te 3

TITLE:

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 1, 1962, 152 - 156

TEXT: The temperature dependences of the electron and hole mobilities of polycrystalline Bi₂Te₃ (n- and p-type) were measured at 80 - 600°K. The different carrier concentrations at which the measurements were made were attained by adding Pb (p-type) and/or CuBr (n-type). In evaluating the mobility data it was assumed that the mobility related to scattering from impurity ions is independent of temperature and of the mean carrier energy. Moreover, it was assumed that $1/u_{exp} = 1/u_{therm} + 1/u_{ion}$, where u_{therm} is the mobility with scattering from thermal lattice vibrations, u is the mobility with scattering from impurities. The effect of scattering from impurities on the thermo-emf is less than 10 - 12%. It was therefore possible to calculate the levels of the chemical potential from the thermo-Card 1/3

33353 S/181/62/004/001/024/052 B108/B104

Mechanism of scattering from...

emf. The electron and hole mobilities in the case of scattering from the thermal lattice vibrations are proportional to T⁻¹.78 and T⁻².12, respectively. Experiments as well as calculations were proof of the correctness of the law 1 ~ 12 (1 - carrier free path) (M. N. Vinogradova et al., FTT. 1, 9, 1333, 1959). This law accounts for screening of the charge of the impurity ions owing to high dielectric constant and high carrier concentration. The experimental and calculated cross sections S of scattering from impurity ions agree well with each other (S_{exp} 2.10⁻¹⁵ cm², corresponding to an "ion radius" of about 3 Å. There are 4 figures, 1 table, and 7 references: 2 Soviet and 5 non-Soviet. The four most recent references to English-language publications read as

are 4 figures, 1 table, and 7 references: 2 Soviet and 5 non-Soviet. The four most recent references to English-language publications read as follows: H. Brooks, C. Herring. Phys. Rev., 83, 879, 1951; K. Hashimoto. Mem. Fac Science, Kynsyn University, ser. B, 2. 5, 165, 1958; I. G. Austin. Proc. Phys. Soc., 72, 545, 1956; N. Sclar. Phys. Rev., 104, 1545, 1956.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

Card 2/3

Mechanism of scattering from...

SUBMITTED: July 15, 1961

Card 3/3

33344

s/181/62/004/001/052/052

B112/B138

24,7600 (1043, 1055,1164, 1385)

AUTHORS:

Yefimova, B. A., Novikov, V. I., and Ostroumov, A. G.

TITLE:

Anisotropy of the galvanomagnetic properties of n-type

Bi₂Te₃

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 1, 1962, 302 - 304

TEXT: Drabble and Wolfe have suggested a six-ellipsoid model to describe the shape of the conduction and valence bands of Bi2Te3. present investigation support this model: The anisotropy of electrical conductivity 611/633 measured at 77 and 290°K was almost the same as that resulting from this model. Longitudinal magnetic resistance (93333/93311 = 1.1) is nonvanishing only if the axis of revolution of the isoenergetic ellipsoids coincides with a symmetry axis $\theta \neq 0$. The strong dependence of the galvanomagnetic coefficients on magnetic field strength, suggests that in n-type Bi2Te3 electron mobility is much greater than hole mobility. is in agreement with the 6-ellipsoid, but not with the isotropic, Card 1/3

333山 5/181/62/004/001/052/052 B112/B138

Anisotropy of the galvanomagnetic...

in the range 77 - 290°K the angles of revolution of the ellipsoids remain constant. The specimens studied were cut parallel and perpendicularly to the third order symmetry axis. The parameters of the energy spectra of the conduction and valence bands $(w_1, w_2, \cos^2 \theta)$ are similar for n- and p-type specimens of similar carrier concentration. w_1 and w_2 depend both on effective-mass anisotropy and the components of the relaxation time tensor. From the coincidence of these parameters for p- and n-type it may be concluded that the conduction and valence bands not only have very similar isoenergetic surfaces but that anisotropy in electron and hole scattering is almost the same. The dependence of the anisotropy parameters on temperature and carrier concentration can also be taken as similar for both types. It is also probable that the parameters obtained so far for n-type Bi2Te3 contain a factor which depends on impurity scattering anisotropy, and the effective mass ratios calculated from them contain some inaccuracy. There are 1 table and 7 references: 3 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: J. B. Drabble et al. Proc. Phys. Soc. B 71, 430, 1958; J. B. Drabble. Proc. Phys. Soc. B 72, 380, 1958; J. B. Drabble, R. Wolfe. Proc. Phys. Soc. <u>B 69</u>, 1101, 1956; Card 2/3

Anisotropy of the galvanomagnetic

333山 S/181/62/004/001/052/052 B112/B138

J. B. Drabble. J. Phys. a. Chem. Sol. <u>8</u>, 428, 1959.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semi-

conductors AS USSR, Leningrad)

SUBMITTED:

October 11, 1961

Card 3/3

YEFIMOVA, B. A.

Dissertation defended for the degree of Candidate of Physicomathematical Sciences at the Technical Physics Institute imeni A. F. Ioffe in 1962:

"Investigation of Electrical and Thermoelectrical Properties of Bismuth Charcogenides and solid Solutions Based on Same."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

L 38540-65 EPR/EWG(c)/EWA(c)/EWT(l)/EWT(m)/EWG(m)/EMP(c)/T/EWA(d)/EWP(w)g ..., / Ps-4/Pz-6 JP(c) FDW/AT/JD 8/0181/65/007/002/0424/0431 ACCESSION NR: AP5005277 AUTHOR: Yesimove, B. A.; Kolomoyets, L. A. 「我不可以不可以不可以不可以不可以不可以不不可以不可以 7 Thermoelectric properties of solid solutions of PbTe-SnTe TITLE: SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 424-431 TOPIC TACS: lead telluride, tin telluride, thermoelectric property, carrier density, Hall coefficient, thermal emf, electric conductivity, carrier mobility ABSTMACT: The authors examine the inaracter of variation of the valence band turily tre transition from this to tile by investigating the the most enterior pro-The state of the second state of the second state of the type conductivity. The tests were made on samples produced by a p-wier me gy technique and checked against samples obtained by zone equalization. The formation of the solid solution was checked by metallographic analysis, and the homogeneity of the samples with respect to the carrier density was monitored with a thermal probe. The purity of the initial materials was ~99.98%. The carrier density was varied, by doping, in the range from 3 x 1018 to 2 x 1020 cm-3 in solid solutions in which SnTe predominated. A total of 13 different solid-Card 1/3

L 38540-65

ACCESSION NR: AP5005277

solution compositions were tested by measuring the Hall coefficients, the thermal emf, and the electric conductivity, and by calculating the carrier density and the mobility. At low concentrations there is good agreement between the corcentration dependence of the thermal emf and the theoretical curve for one type of the carrier with a constant effective mass and with zero value of r ir -- exponent in the powr-law energy dependence of the carrier mean free path. This means in this concentration region ($n \le 10^{19} \text{ cm}^{-3}$) the second band does not influence the thermoelectric properties of the alloys. In solid solutions with large SnTe content, the second band begins to be more pronounced and its effect is the content, the second band begins to be more pronounced and its effect is the content, and the content of the thermal emf. The

in the effective mass upon addition of bale. The sharp decrease in mobility, observed when small amounts of SaTe are added (up to 5 mol.%) cannot be attributed to either additional scattering by the tin atoms or by the change in the effective mass. It may be due either to an increase in the interband scattering (due to the change in the mutual placement of the bands) or to a change in the deformation potential, but both hypotheses need further verification. A model of valence band with two types of valleys is proposed for the solid solution.

Card 2/3

L 38540-65

ACCESSION NR: AP5005277

"The authors thank L. S. Stil'bans and B. Ya. Moyshes for continuous interest and for a discussion of the results." Fig. art. has: 5 figures and 1 formula.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semi-

conductors AN SSSR)

SUBMITTED: 15Ju164

ENCL: 00

SUR CODE: SS, EM

IR REF SOV: 007

OTHER: 003

Card 3/3 /13

RDW/AT/JD L 8162-66 EWT(1)/EWT(m)/ETC/EWG(m)/EWP(b)/EWP(t)/T/0181/65/007/008/2554/2556 ACCESSION NR: AP5019890 44,55 AUTHOR: Stavitskaya, T. S.; Long, V. A.; Yefimova, B. A. Thermoelectric properties of n-PbTe at high tempe: atures SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2554-2556 lead compound, telluride, thermoelectric property, electric conductivity, thermal emf, Hall constant, carrier density, carrier scattering, forbidden band ABSTRACT: To extend the range of temperatures and concentrations in which the thermoelectric properties of n-PbTe are known at present, the authors measured the electric conductivity, the thermal emf coefficient, and the Hall constant in the temperature interval 300 - 1000K with the electron concentration varying from 1 x 10^{19} to 1 \times 10^{20} cm⁻³. The measurements were made with single-crystal and polycrystalline samples of n-PbTe, the properties of which were practically the same in the investigated temperature and concentration ranges. The results are shown in Fig. 1 of the Enclosure. The measurements have shown that, in the investigated region of temperatures and concentrations, the conductivity is essentially of the impurity type. The effective mass has a temperature dependence in the form Card 1/3 0902

"APPROVED FOR RELEASE: 09/19/2001

L 8162-66

ACCESSION NR: AP5019890

 $m^4 \sim T^{0.6}$ —1.0. The Hall constant remains practically constant, and the electron mobility varies like $u \sim T^{-3.5}$. The results indicate that the thermal electric properties of strongly alloyed n-PbTe in the temperature interval 100 — 1000K can be explained fully by assuming a single type of carriers and acoustic scattering. The temperature dependence of the effective mass agrees qualitatively with the temperature variation of the width of the forbidden band. Orig. art. has: 2 figures, 1 formula and 1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors

AN SSSR) Leningrad

SUBMITTED: 31Mar65

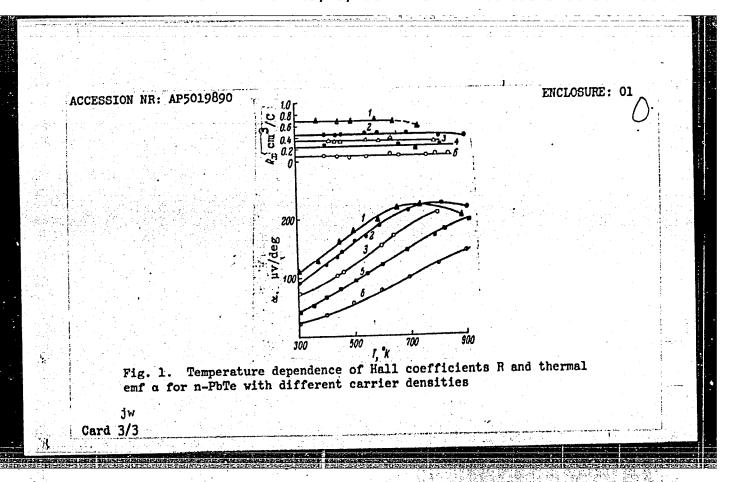
ENC: 01

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NR REF SOV: 004

OTHER: 002

Card 2/3



RDW/JD IJP(c) EWT(m)/ETC/EWG(m)/EWP(t)/EWP(b) L 6334-66 UR/0181/65/007/008/2524/2527 AP5019876 ACCESSION NR:

AUTHOR: Yefimova, B. A.; Kaydanov, V. I.; Moyzhes, B. Ya.; Chernik, I. A.

TITIE: On the band model of SnTe

SOURCE: Fizika tyerdogo tela, v. 7, no. 8, 1965, 2524-2527

TOPIC TAGS: tin compound, telluride, electric conductivity, Hall effect, thermoelectric power, Nernst effect, impurity band

ABSTRACT: By introducing impurities (Sn, Te, Cl) the authors have succeeded in obtaining polycrystalline samples of p-SnTe with concentrations at prook = 2.8 x 10¹⁹ --2.0 x 10²¹ cm⁻³, and determine the band model of SnTe for this range of concentrations, which was not investigated thoroughly in the past. Measurements were made of the electric conductivity, thermoelectric power, Hall constant, and the isothermal constant of the transverse Nernst-Ettingshausen effect, as well as the variation of the thermoelectric power in a magnetic field. The authors suggest that the results obtained provide some new evidence of the correctness of the semiconductor model of SnTe with two valence bands. The anomalously large Nernst-Ettingshausen effect can then be explained by supplementing this model with an account of the intraband scattering. Orig. art. has: 2 figures, 1 formula, and 1 table.

Card 1/2

ductors AN SSSR) SUBMITTED: 12Mar65		SSSR, Leningrad (Instinct)	
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ACC NR: AP7002395

SOURCE CODE: UR/0363/66/002/012/2096/2102

AUTHOR: Stavitskaya, T. S.; Long, V. A.; Yefimova, B. A.

ORG: Institute of Semiconductors, Academy of Sciences, SSSR (Institut poluprovodni-

TITLE: Thermoelectric properties of n-PbTe at high temperatures

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 12, 1966, 2096-

TOPIC TAGS: lead compound, telluride, thermoelectric property, semiconductor carrier, carrier scattering

ABSTRACT: The thermal emf α , electric conductivity of and Hall effect R were measured over a wide range of temperatures (300-950 cK) and carrier concentrations (10¹⁸-10²⁰ cm⁻³) on single-crystal and polycrystalline n-PbTe samples. It is shown that in order to account for the properties of n-PbTe up to 950 cK and $n \sim 10^{20}$ cm⁻³, it is sufficient to consider a single type of carriers, i. e., only the four-ellipsoid model of <111>. For samples with $n \sim 1 \times 10^{19}$ cm⁻³ over the entire temperature range studied, the function m*(T), where m* is the effective electron mass, is entirely accounted for by the temperature dependence of the forbidden gap width. At higher concentrations, a certain discrepancy apparently due to the nonparabolicity of the conduction band is observed between the experimental and theoretical data. The following

Card 1/2

UDC: 546.815 24:541.12.03

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ACC NR: AP7002395

results were obtained for the temperature dependences of m* and mobility u at T 500 °K: $m^* \sim T^{0.6-0.8}$, u $\sim T^{-3.5}$.

It is shown that when T>500 °K, the predominant mechanism of scattering up to $n \sim 1 \times 10^{20}$ cm⁻³ is scattering on accountic phonons. Authors thank B. Ya. Moyzhes and L. S. Stil'bans for their steady interest in the work and participation in the discussion of the results. Orig. art. has: 8 figures, 4 formulas and 1 table.

SUB CODE: 20/ SUBM DATE: 21Jun65/ ORIG REF: 004/ OTH REF: 004

Card 2/2

YERYKALOV, Yu. G.; SPRYSKOV, A. A.; YEFIMOVA, E. M.

Orientation during substitution in the aromatic series.

Part 11: Isomerization of trichlorobenzenes. Zhur. ob. khim.
32 no.12:4025-4028 -D '62. (MIRA 16:1)

1. Ivanovskiy khimiko-tekhnologicheskiy institut.

(Benzene) (Isomerization)

FEL'ZENRAUM, V.G.; YEFIMOVA, E.P.

Urgent objectives in the expansion of the soft roofing materials industry. Stroi.mat. 6 no.4:3-6 Ap '60.

(Roofing)

(Roofing)

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	Means of lover products.	wering the o Stroi. mat.	cost of manuf 9 no.8:8-10	acturing asbea	MIRA 17:5)	
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SIMONAVICHENE, K. [Simonaviciene, K.]; KANTSLERIS, A. [Kancleris, A.], otv. za vypusk; KURIS, A., inzh., spets. red.; ABROMATIYENE, Kh. [Abromaitiene, H.], red.; YEFIMOVA, F., red.; PILKAUSKAS, K., tekhn. red.

[Mechanization and automation of production processes in the wood-working industries; bibliographical index] Medzio apdirbimo pramones gamybos procesu mechanizavimas ir automatizavimas; bibliografine rodykle. Vilnius, 1961. 117 p. (MIRA 15:4)

1. Lithuanian S.S.R. Liaudies ukio taryba. Centrine moksline-technine biblioteka, Vilna.

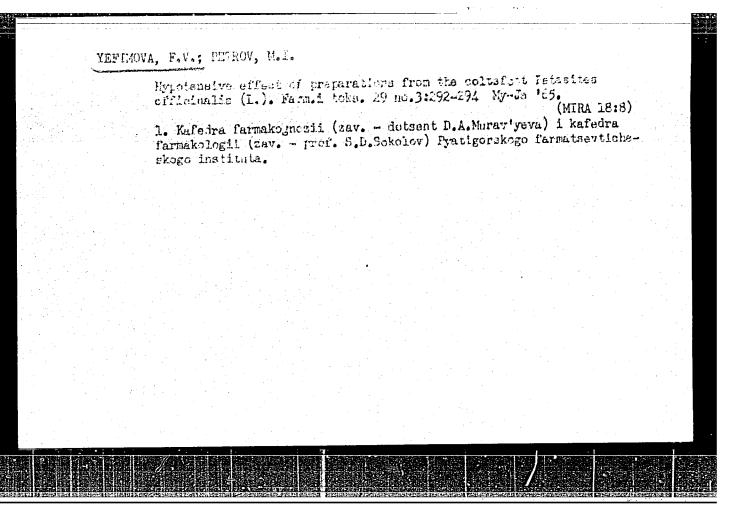
(Bibliography—Woodworking industries)
(Bibliography—Automatic control)

SEMENOV, A.G.; YEFIMOVA, F., red.

[Progressive methods of welding and cutting of metals; materials of the 3d and 4th Republic Conference of Lithuanian Welders] Progressivnye metody svarki i rezki metallov; materialy III i IV respublikanskikh konferentsii svarshchikov Litvy. Vil'nius, 1963. 231 p.

(MIRA 17:12)

1. Respublikanskaya konferentsiya svarshchikov Litvy.



YEFIHOVA, E.V.; Moder Trive, D.A.

Study of the themical composition of the Petastles excels of the Northern Camasiz. Type date in 12 mo. Sellech Sent 169.

(NEAR 18011)

1. Pyntigersky fernitesorushuskiy sadultut.

YEFIMOVA, F. Ye.

6230. Petrova, M. I. i Yefimova, F. Ye. Rekomendatel'nyy katalog sol'skoy i kolkhoznoy biblioteki. Knigi, izd. Chuvashgosizdatom. Cheboksary, chuvashgosizdat, 1954. 216 s. 23 sm. (chuvash. resp. E-kaim. M. Gor'kogo) 1500 ekz. 6r. 60k. V per.— Sost. ukazany na oborote tit. L. na chuvash. yaz.

V pril: Skhemy otdelov desyatichnoy klassifikatsii. (Na rus. yaz.)--Avtorskiye tablitsy. (Na chuvash.yaz.)--Pravila Pol'zovaniya avtorskimi tablitsami. (Na Rus. yaz.)- /54-50927/ 016+027.5 (-22)

SO: Knizhamya Letopis' 1, 1955

DANILOV, S.N.; TJKHOMIROVA-SIDOROVA, N.S.; USTYUZHANIN, G.Ye.;
YEFIMOVA, G.A.

Cleavage of an anhydride ring in dianhydroxylitol by amines.
Zhur.ob.khim. 32 no.11:3614-3611 N '62. (MIRA 15:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Xylitol) (Anhydrides) (Amines)

DANILOV, S.N.; TIKHOMIROVA-SIDOROVA, N.S.; USTYUZHANIN, G.Ye.; YEFIMOVA, G.A.

Cleavage of an anhydride ring in dianhydroxylitol by amines. Zhur.ob.khim. 32 no.11:3614-361 N '62. (MIRA 15:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Xylitol) (Anhydrides) (Amines)

YEFT VA. G.A.; USTYZHANIN, G.Ye.; TIKHOMIROVA-SIDOROVA, N.S.; DANILOV, S.N.

Reactions of 2-tosy1-1,4-3,5-dianhydroxylite with amines. Zhur. ob. khim. 33 no.5:1429-1431 My '63. (MIRA 16:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

(Xylitol) (Toluenesulfonic acid)

(Amines)

USTYUZHANIN, G.Ye.; YEFIMOVA, G.A.; KOGAN, E.M.; TIKHOMIROVA-SIDDROVA, N.S.; DANILOV, S.N.

Cleavage of an anhydride ring in dianhydroxylitol and its derivatives by hydrogen chloride in glacial acetic acid. Zhur.ob.khim. 32 no.11:3617-3621 N '62. (MIRA 15:11)

Institut vysokomolekulyarnykh soyedineniy AN SSSR.
 (Xylitol) (Amhydrides) (Hydrochloric acid)

ZBOHOVSKIY, A.B., dotsent; BLLYAKOVA, A.A.; YEFIMOVA, G.F.

Clinical tests of nitrosarbide in coronary disease. Vrach. delo (MICA 15:1)

1. Kafedra gospital'noy terapii (zaveduyushchiy - dotsent A.B. Zborovskiy, nauchnyy rukovoditel' - prof. I.V.Vorob'yev). Stalingradskogo meditsinskogo instituta i tret'ye bol'nichno-poliklinicheskoye ob"yedineniye.

(CORONARY HEART DISEASE) (SORBITOL)

YEFIMOVA, G.M.

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KUSHELEVSKIY, B.P., professor; YASAKOVA, O.I., kandidat meditsinskikh nauk; YEFIMOVA, G.M.

Dicumarin therapy of miocardial infraction; second report. Sov.med. 17 no.10: 10-15 0 '53. (MLRA 6:10)

1. Fakul'tetskaya terapevticheskaya klinika Sverdlovskogo meditsinskogo instituta. 2. 1-ya gorodskaya klinicheskaya bol'nitsa. (Heart--Infraction)

YEFIMOVA, G.M.

KUSHELEVSKIY, B.P., professor; YASAKOVA, O.I., kandidat meditsinskikh nauk; YEFIMOVA, G.M.

Functional evaluation and prognosis of the capability for work in patients with myocardial infarct. Report No.3. Sov. med. 18 no.12: 19-21 D 54. (MIRA 8:2)

1. Iz fakulitetskoy terapevticheskoy kliniki (zav.-prof. B.P.Kushelevskiy) Sverdlovskogo meditsinskogo instituta. (MYOCARDIAL INFARCT, physiology

working capability in)

capacity determ. in myocardial infarct)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962410010-7

FEIMOVA, GM EXCERPTA MEDICA Sec.6 Vol.10/12 Internal Medicine D'56 7344. EFIMOVA G.M. *The early diagnosis and treatment of rheumatic coronary arteritis (Russian text) SOVETSK. MED. 1955, 12 (40-46) Graphs 3 A report on 30 adult patients with rheumatic coronary arteritis is presented. The diagnosis was made during the onset of the first attack or of a relapse of acute rheumatic fever with pains in the heart region. With regard to clinical picture and ECG the patients were divided into 2 groups: the 1st with myocardial infarction and the 2nd with angina pectoris. In the first group were 4 patients aged 20-30 yr. in a severe state during the onset of a relapse of rheumatic fever with clinical signs and ECG characteristic of infarction. Two of these patients had cardiac asthenia and pulmonary oedema. After bedrest for 5 weeks and treatment with 6.0-7.0 g. of sodium salicylate or 3-4 g. of aspirin daily, cardiotonics, etc., a general improvement was seen, the fever and blood changes disappeared and after 2.5-3.5 months the ECG returned to normal. The 2nd group included 26 patients with a clinical picture and ECG of coronary artery insufficiency. In 6 of them the ECG changes suggested myocardial infarction, which was not confirmed by the clinical picture. Pains and changes of blood and ECG disappeared after treatment with salicylates and bedrest for 2-3 weeks. Koszarska - Szczecin 1. IZ FAKOL'TETSKOY TERAPEUT, Cheskoy

KLINIA (prof. & P. Koshelevskiy) Sverilov.

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YEFIMOVA, G.V.	
TENTIONA G.V.: "Investigation of the natural movements of stars in the region	
(Dissertations for the Legree of Sandanas	
50: Knizhnava letopis! No 45, 5 November 1955. Moscou.	
GENERAL DE LA LICENSIA DE LA LICENSIA DE LA RESPONSA DEL RESPONSA DEL RESPONSA DE LA RESPONSA DEL RESPONSA DEL RESPONSA DE LA RESPONSA DEL RESPONSA DE LA RESPONSA DEL RESPONSA DE LA RESP	

YEFIMOVA, G.V., MARKOVICH, A.V.

Determination of griseofulvin and 6-demethylgriseofulvin in the urine by a spectrophotometric method. Vop. med. khim. 9 no.48429-434 Jl-Ag²63 (MIRA 1784)

1. Nauchno-issledovatel'skiy institut antibiotikov, Leningrad.

KAMYSHKO, O.P.; TSYQANOV, V.A.; YEFIMOVA, G.V.

Method for determining the antagonistic activity of soil fungi.
Eksp. i klin. issl. po antiblot. 2:27-30 '604 (MIRA 15:5)

(FUNGI IMPERFECTI)

YEFIMOVA, G.V.; MARKOVICH, A.V.

THE STREET STREET, STR

Spectrophotometric determination of griseofulvin in mycelia. Antibiotiki 9 no.7:592-595 Jl 164.

(MIRA 18:3)

1. Leningradskiy nauchno-issledovatel'skiy institut antibiotikov.

CIA-RDP86-00513R001962410010-7" APPROVED FOR RELEASE: 09/19/2001

YEFIMOVA, G.V.; MARKOVICH, A.V.

Effect of dispersion properties of griseofulvin on the renal excretion of griseofulvin and 6-dimethylgriseofulvin. Antibiotiki 9 no.9:818-821 S '64. (MIRA 19:1)

1. Leningradskiy nauchno-issledovatel'skiy institut antibiotikov.



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R00196241003

KAMYSHKO, O.P.; YEFIMOVA, G.V.; MALYSHKINA, M.A.

Antibiotically active fungus, Penicillium proteolyticum Kamiachko. Eksp. i klin. issl. po antibiot. 2:37-40 '60. (MIRA 15:5) (PENICILLIUM)

YEPIMOVA, G.V.; MARKOVICH, A.V.; SHENIN, Yu.D.

Separation and identification of substances accompanying griseofulvin. Zhur. ob. khim. 34 no.11:3842-3843 N '64 (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut antibiotikov, Leningrad.

DANILOV, S.N.; TIKHOMIROVA-SIDOROVA, N.S.; USTYUZHANIN, G.Ye.; YEFIMOVA, G.Ye.; KOGAN, E.M.

New data on the structure of xylitol dianhydride. Zhur.ob. khim. 32 no. 2:656-657 F '62. (MIRA 15:2)

1. Institut vysokomolekulyarnykh soyedineniy. (Kylitol)

YEFIMOVA, I.A.

Prepare drugs of high quality and quickly. Zdrav. Belor. 6 no.9:
(MIRA 13:9)

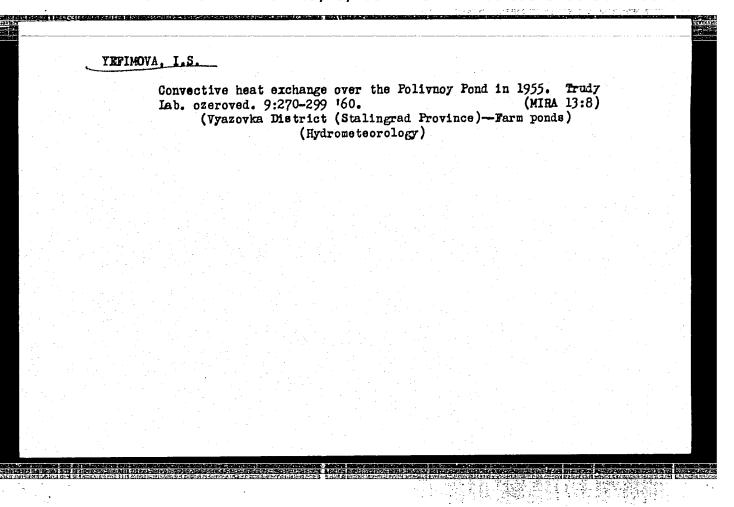
1. Upravlyayushchaya Bobruyskoy aptekoy No 75. (PHARMACY)

ETTINGER, I.L.; AFANAS'YEVA, A.I.; YEFIMOVA, I.N.

Effect of contact metamorphism on the sorption properties of Noril'sk coals. Gor. i ekon. vop. razrab. ugol'. i rud. mest. no.1:241-246 '62. (MIRA 16:7)

(Noril'sk region--Coal) (Sorption)

YEFIMOVA, I.S. Hydrographic characteristics of the upper section of the Buzuluk Basin and its artificial bodies of water. Trudy Lab. ozerovod. 9:30-41 '60. (MIRA 13:8) (Buzuluk Valley (Stalingrad Province)—Farm ponds)



24(6)

SOV/181-1-10-4/21

AUTHORS:

Davidenkov, N. N., Yefimova, I. S.

TITLE:

Effect of the Surface State on Cold-brittleness

PERIODICAL:

Fizika tverdogo tela, 1959, Vol 1, Nr 10,

pp 1516 - 1520 (USSR)

ABSTRACT:

On the basis of studies by Western authors and, in particular, by A. F. Ioffe and A. V. Stepanov the authors investigated the fracture of Mo samples with different surface states for a special case. Cylindrical samples 7-10 mm thick and 55-70 mm long were annealed at 1650°C vacuum (10-3 torr) for 4 h before and after the surface treatment. The samples were treated 1) by means of a lathe steel and 2) by grinding with a stone. The critical temperature of brittleness was measured on a GZIP impact machine at a striking velocity of 3.8 m/sec. The cold-brittleness was determined from the low-temperature flexure of the sample. Results of measurement have indicated the following: The critical temperature of cold-brittleness of samples treated according to 2) is lower by 35°C on the average than that of samples treated according to 1). At the

Card 1/2

Effect of the Surface State on Cold-brittleness

SOV/181-1-10-4/21

boiling point of nitrogen, the brittle strength of samples treated according to (2) is 57.2 kg/mm²; for those treated according to (1) it is 46.1 kg/mm². The yield limits measured in the temperature range -195 and +205°C are equal for both states ((1) and (2)). At -195°C, the yield limit was higher by 2.5 times (in compression) than brittle strength (in rupture). This indicates that the brittleness does not result either from tangential stress or the rupture normal. The position of the critical temperature of the semiconductor samples and, consequently, the scheme worked out by A. F. Ioffe confirmed by taking into account the increase in the yield limit under the influence of striking velocity. There are 1 figure, 2 tables, and 7 references, 3 of which are Soviet.

ASSOCIATION:

Leningradskiy fiziko-teknnicheskiy institut AN SSSR (Leningrad Institute of Physics and Technology of the AS-USSR)

SUBMITTED:

January 10, 1959

Card 2/2

POPTRIN, L.S., kand.tekhn.nauk; YEFIMOV, N.T., inzh.; TARANOV, A.G., inzh.;

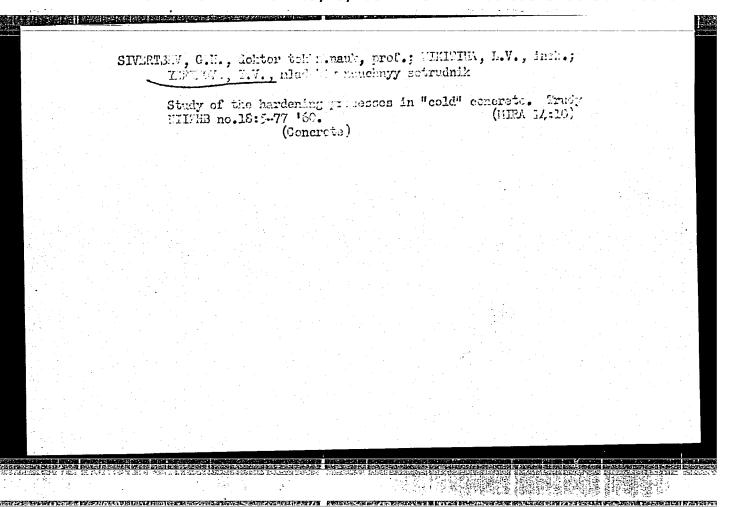
YEFIMOVA, I.S., inzh.

Selection of optimum design paramters and networks for connecting regenerative heaters of large condensing electric power plants.

Elek.sta. 34 no.2:20-26 F '63.

(Boilers)

(Steam power plants)



UR/0217/65/010/004/0586/0594 ACCESSION NR: AP5018797 577.3 30 B AUTHOR: Yefimova, I. V.; El'piner, I. Ye. TITLE: Effect of ultrasonic waves on the structure and biological activity of the polypeptide type of antibiotics (polymyxin H) SOURCE: Biofizika, v. 10, no. 4, 1965, 586-594 TOPIC TAGS: antibiotic, ultrasonic wave, microbiology, amino acid ABSTRACT: Solutions of polymyxin M exposed to ultrasonic waves in the presence of argon or nitrogen were broken down into a larger number of molecular fragments interacting with ninhydrin than when exposed in the presence of oxygen (according to chromatographic and electrophoretic studies). More peptide bonds were broken in the presence of argon than in the presence of oxygen. Hydrolysates of the solutions sonicated in the presence of argon, nitrogen, or oxygen contained a-monoaminobutyric acid, leucine, threonine, and α , γ -diaminobutyric acid. There were scarcely any chemical changes in polymyxin M sonicated in the presence of hydrogen. The structural changes in the entibiotic paralleled impairment of its biological activity (as alienasta aktorija jara 1996. Card 1/2

t a i	ested on a 20-hour culture of Brucella bronchiseptica). Polymyxin M lost almost li of its antibiotic activity when sonicated in the presence of argon or nitrogen. It lost much less activity if sonicated in the presence of oxygen; it retained alost all of its activity if sonicated in the presence of hydrogen. Orig. art. has: figures, 1 table. SSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biophysical National SSSR)	5 ,
	UBMITTED: 04Nov64 ENCL: QO SUB CODE: LS OTHER: 000	-
	Card 2/2	

YEFIMOVA, K.

661. U nashey stolovoy. (Labachnaya fabrika "Yova" Zapisal i lk. obrabgial M.
Kelchevskiy M.) Profizdat, 1954. 68 s. s. plan. 17 sm. (Rasskazy novatorov).
10.000 ekz. 90k. - (54-55200) p 640.245 st. (47.311)

So: Knizhnaya Letoris, Vol 1, 1955

SIMONOV, Ya.P.; SALEPOVA, A.I.; SMIRNOVA, A.I.; SYRTSOVA, Ye.M.; MIKHAYLOVA, A.D.; YEFIHOVA, K.A.; MOROZ, V.F.; GUK, Yu.I.; HIKOLAYEVA, Z.A.; AYZENBERG, M.M.; MIKHAYLOVA, K.L.; ROGOVSKAYA, Ye.G., red.; VOLKOV, N.V., tekhn.red.

[Agroclimatic reference book on Nikolayev Province] Agroklimaticheskii spravochni. o Nikolaevskoi oblasti. Leningrad, Gidrometeor.izd-vo. 1959. 103 p. (MIRA 13:2)

1. Kiyev. Gidrometeorologicheskaya observatoriya. 2. Nachal'nik otdela agrometeorologii Kiyevskoy gidrometeorologicheskoy observatorii (for Salepova).

(Nikolayev Province--Crops and climate)

S/186/60/002/006/008/026 A051/A129

AUTHORS:

Vdovenko, V. M.; Yefimova, K. I.; Chaykhorskiy, A. A.

TIME:

An investigation of the complex-formation in non-squeous solutions

II. The system water-butylacatate-benzene.

PERIODICAL:

Radiokhimiya, v. 2, no. 6., 1960, 675 - 681

The authors deal with the method for determining the hydration number of the extracted substance in the organic and water phase on the example of the water-butylacetate-benzene system. The possibility is shown by using the general distribution equation in a slightly different form for this purpose. The experimental investigation of the interaction of p-butylacetate with water in an equation and tescene metion within the range of the butylacetate concentration of up to 1.72 M (10 %) encased that butylacetat forms within water milecular actionings of the EA: Hold composition at an equilibrium sometant equal to 0.99 the first tenzene and addaller solutions within the given range. The experimental results were checked by the general distribution equation:

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An investigation of the complex-formation ...

3/186/60/002/006/008/026 A051/A129

$$a_0 = \frac{c_0}{c_W^2}$$
 (1) and changes to $a_0 = \frac{c_0^2 c_0^2}{c_W^2 c_W^2}$ (2)

where C_0 and C_W are the consentrations of the distributed substance in the organia and water phases, f_0 and f_W the corresponding activity coefficients, p and q the degrees of polymerization of the distributed substance in the organic and water phases. It is assumed that if water forms compounds in both phases with butylacetate, then their compositions would be in the organic phase: $BA \cdot (H_2O)_2$, in the aqueous phase $BA \cdot (H_2O)_2$. The activity of water in salt solutions was also calculated from table data of osmotic coefficients (Ref. 4: R. A. Robinson, R. H. Stokes. Trans Farad. Soc., 45, 7, 612, 1949 and Ref. 5: R. H. Stokes, Trans. Farad. Soc. 44, 5, 295, 1948). The activity coefficients in the organic phase was calculated from the formula;

$$f_0 = \frac{\alpha_0^{\alpha}(H_20)_W}{[H_20]_0}, \tag{5}$$

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APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962410010-7"

5/186/60/002/006/008/026 A051/A129

An investigation of the complex-formation

where t_0 is the average activity coefficient of water in the organic phase, a $(H_2O)_{tr}$ the water activity in the agreeus solution, $[H_2O]_0$ the water consen-

tration in the organic phase, a the coefficient of (thermodynamic) distribution of water between benzens and water equal to 5.56 · 10^{-4} . The activity of water in benzens solutions containing 0.216, 0.360, 0.504 and 0.720 M butylacetate was determined in a similar manner. The degree of polymerization of water in the aqueous and benzens phases is the same. These data led to the conclusion that water forms a compound with butylacetate containing one water molecule: in the organic phase (PA), · H_2O , in the water phase (PA), · H_2O . Since this conclusion is considered only qualifiative, an investigation of the chemical equilibrium taking place in the water and organic phases was made. Assuming that the increase in the water solubility in benzens with an increase of the butylacetate concentration is associated with the formation of the occupant (BA) $(H_2O)_n$, the following equation is derived:

$$K_{0} = \frac{\frac{1}{m} \left(\sum E_{2} \hat{o} - \left(H_{2} \hat{o} \right)_{0} \right)}{\left[E_{2} \hat{o} \right]_{0}^{m} \left[\sum E_{2} \hat{o} - \left[H_{2} \hat{o} \right]_{0} \right]^{m}}$$
(6)

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\$/186/60/002/006/008**/**026 AC51/A129

An investigation of the complex-formation ...

where $\mathbb{Z}H_2\mathbb{C}$ and $[H_2\mathbb{Q}]_Q$ are the general and equilibrium concentrations of water in the organic phase. \mathbb{Z} PA is the general concentration of butylacebate in the organic phase, n and m is the master of molecules of the components, constituting part of the complex. After transformation and taking the logarithm of (6) for the value of nels

$$lg (\Sigma H_2 O - [H_2 O]_0) = lg \Sigma PA + lg \frac{e Y_0 [H_2 O]_0^m}{I + X_0 [H_2 O]_0^m}$$
 (7)

from where the function is derived:

$$\varphi = \frac{\Sigma H_2 O - [H_2 O]_0}{\Sigma EA} = \frac{m \kappa_0 [H_2 O]_0^m}{1 + \kappa_0 [H_2 O]_0^m} = \text{const.}$$
(8).

At n=1 the function is a constant value. A method is derived for determining the number of hydration of the organic component in the organic phase for the Card 4/8

An investigation of the complex-formation ...

S/186/60/002/006/008/026 A051/A129

case, when the value of the product $K[H_2O]_0^m \ll 1$: $\psi_1 = mK_0[H_2O]_{01}^m$

 $\psi_2 = mK_0[H_20]_{02}^m$. Dividing ψ_2 by ψ_1 and transforming to logarithms the follow-

ing equation is derived:

$$m = \frac{\lg \varphi_2 - \lg \varphi_1}{\lg[H_2O]_{02} - \lg[H_2O]_{01}}$$
 (9),

where $[H_20]_{01}$ and $[H_20]_{02}$ are the equilibrium water concentration in the organic phase for various series of experiments. A similar principle is used to prove the formation of the BA \cdot H_20 compound in an aqueous solution. Using the relation

$$H_{20} = \frac{a(H_{20})_{0}}{a(H_{20})_{W}}$$

Card 5/8

S/186/60/002/006/008/026
An investigation of the complex-formation S/186/60/002/006/008/026

$$^{\triangle}_{BA} \cdot ^{H_{2}O} = \frac{^{a}(BA \cdot ^{H_{2}O)}_{O}}{^{a}(BA \cdot ^{H_{2}O)}_{W}}$$

$$^{ch}_{BA} = \frac{^{a}_{(BA)}_{0}}{^{a}_{(BA)}_{W}}$$

where aH20, aBA · H20 and aBA are the distribution coefficient of the corresponding components, the following equation is derived:

$$\frac{\alpha_{BA} \cdot H_{2}^{0}}{\alpha_{H_{2}^{0}} \cdot BA} K_{B} = \frac{\alpha_{(BA} \cdot H_{2}^{0})_{0}}{(H_{2}^{0})_{0} (BA)_{0}}$$
(10),

where $K_{\rm B}$ is the equilibrium constant of BA \cdot $H_{\rm 2}$ 0 in the aqueous solution. If Card 6/8

s/186/60/002/006/008/026 A051/A129

An investigation of the complex-formation

n = 1 and m = 1 as established above it is concluded that a BA · H_2O compound is formed in the aqueous solution, proven previously from the analysis of the general distribution equation (4). Combining (6) and (10):

$$K_{B} = K_{0} \frac{\alpha_{H_{2}} \alpha_{BA}}{\alpha_{BA} \cdot H_{2}}$$
 (11) or by another method:
$$K_{B} = \frac{(\sum BA)_{W}}{[BA]_{0}} \alpha_{BA} - 1$$
 (12)

and also

$$K_{B} = \frac{1}{(\sum BA)_{W}}$$

$$55.51 \quad [BA \cdot H_{2}O]_{0}$$
(13)

If a BA or a BA · H2O are known, K can be calculated. There are 2 tables,

figures and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The references to the English language publications read as follows: Katzin, L; J. Sullivan,

Card7/8

CIA-RDP86-00513R001962410010-7" APPROVED FOR RELEASE: 09/19/2001

S/186/60/002/006/008/026 A051/A129

An investigation of the complex-formation ...

J. Phys. collid chem., 55, 3, 346, 1951; R. A. Robinson a. R. H. Stokes, Trans. Farad. Soc., 45, 7, 612, 1949; R. H. Stokes Tans. Farad. Soc., 44, 5, 295, 1948.

SUBMITTED: January 20, 1960.

Card 8/8

5/186/61/003/003/008/018 E071/E435

AUTHORS:

TITLE:

and the property of the state o

Chaykhorskiy, A.A., Vdovenko, V.M., Yefimova, K.I.

and Belov, L.M.

On the Investigation of the Formation of Complexes in Non-Aqueous Solutions.

Thermodynamic Characteristics of Systems: Water-Tributylphosphate-Benzene and Water-Butylacetate-Benzene

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.3, pp.295-301 The mechanism of the distribution of water between aqueous and organic phases in the above systems was investigated previously (Ref.6: V.M.Vdovenko, L.M.Belov, A.A.Chaykhorskiy, Radiokhimiya, 1, 4, 439 (1959); and Ref.7: V.M. Vdovenko, K.I. Yefimova and Chaykhorskiy, Radiokhimiya, 2,6,675 (1960)). It was then found that in aqueous and organic phases of the above system, in the range of concentration of the organic component of up to 10%, molecular compounds of the composition TBPh·H20 and BA·H20 (TBPh-tributylphosphate; BA - butylacetate) are formed. On the basis of data on the distribution of water between the phases, the equilibrium constants for the above compounds in the In the present paper the organic phase at 20°C were calculated. Card 1/3

s/186/61/003/003/008/018 E071/E435

On the Investigation of ...

results of an investigation of the chemical equilibrium in the organic phase of the above system at 6, 13 and 20°C are reported and, on the basis of these data, complete thermodynamic characteristics of the reaction of formation of TBPh·H20 and BA·H20 as well as of the process of distribution of water between indicated that the process of formation of complexes TBPh and BA water and benzene were calculated. with water are exothermic, the values of enthalpies are practically equal (Δ H° = -3.84 + 4% and -3.13 + 6% k cal/mole for TBPh·H₂0 and BA.H20 respectively) while the isobar potentials differ by one order (\triangle ZT - 1.41 + 2% and 0.0546 + 3% kcal/mole, respectively) which indicated that the stability of TBPh·H₂O is higher than that of The process of solution of benzene in water is endothermic the solution of benzene in water is higher than the heat effect of BA.HoO. Thus, despite the reaction of formation of complexes being exothermic, the overall process of the solution of water in a benzene solution of TBPh or BA remains endothermic. There are 5 figures, 5 tables and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc. The four references to Card 2/3

CIA-RDP86-00513R001962410010-7" APPROVED FOR RELEASE: 09/19/2001

S/186/61/003/003/008/018 E071/E435

On the Investigation of ...

English publications read as follows: E.Gluccauf, H.A.C.McKay and A.R.Mathieson, Trans.Farad.Soc., 47, 5, 437 (1951); A.W.Gardner and H.A.C.McKay, Trans.Farad.Soc., 48,12,1099 (1952); H.A.C.McKay, Trans.Farad.Soc., 47,12,1103 (1952); T.H.Siddell, J.Am.Chem.Soc., 81,16,4176 (1959).

SUBMITTED: May 16, 1960

Card 3/3

CIA-RDP86-00513R001962410010-7 "APPROVED FOR RELEASE: 09/19/2001

YEFIMOVA,

USSR / Microbiology. Microbes Pathogenic to Man and animals. General Problems.

F-5

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72075.

; Yefimova, K. V. Author

Inst

Semiliquid Medium in Laboratory Diagnosis of Infected Diseases. Report I. Use of Semi-Not given. liquid Alkaline Agar for Obtaining Homocultures Title

During Typhoid Fever.

Orig Pub: Labor. delo, 1957, No 5, 36-38.

Abstract: For obtaining hemocultures, the blood of 62 typhoid patients was inoculated into a semiliquid alkaline agar prepared with the addition of 0.1% agar to a 10% alkaline broth. Blood inoculations in a 10% alkaline broth served as the control. 1.6 ml of blood was inoculated into each medium

Chairy microbiology, Kuybysher Mel Snot.

Card 1/2

CIA-RDP86-00513R001962410010 APPROVED FOR RELEASE: 09/19/2001

USSR / Microbiology. Microbes Pathogenic to Man and Animals. General Problems.

F-5

hbs Jour: Ref Zhur-Biol., No 16, 1958, 72075.

Abstract: divided at 1, 0.5 and 0.1 ml. In some patients, blood was taken two and three timos. 82 inocublood was taken two and three timos. 82 inoculations were made in all. A homoculture was lations were made in all. A homoculture was isolated in 37% of the total number of patients and 26% of the total quantity of analyses. The author explains the low percentage of positive results in comparison with data of the literature by the fact that the patients entered the clinic after treatment with antibiotics. The clinic after treatment with antibiotics. The greatest quantity of positive results falls on the first 10 days of illness. The use of this medium twice exceeded the number of positive results at those periods of investigation.

M. Ya. Boyarskaya.

card 2/2

YEFIMOVA, K. V., Candidate Med Sci (diss) -- "A comparative evaluation of methods of detecting live causative agent in semiliquid media and its antigenic substances by the precipitation reaction and fixation of the complement". Kuybyshev, 1959. 15 pp (Kuybyshev State Med Inst, Chair of Microbiology), 220 copies (KL, No 25, 1959, 140)

YEFIMOVA, K.V.

Semifluid media in the laboratory diagnosis of infectious diseases. Report no.2: Use of semifluid enrichment cultures for producing coprocultures in dysentery. Lab. delo 5 no.3:45-47 My-Je '59.

(MIRA 12:6)

1. Iz kafedry mikrobiologii (zav. - prof. S.I. Boryu) Kuybyshevskogo meditsinskogo instituta.

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(DYSENTERY)

YEFIMOVA, I., mladahiy nauchnyy sotrudnik

Chlorophos and entobacterin for vegetable crops. Zashch. rast. ot vred. i bol. 10 no.7:15-16 '65. (MIRA 18:10)

1. Pushkinskaya baza Vsesoyuznogo nauchno-issledovatel'skogo instituta zashchity rasteniy.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962410010-7

UR/0129/65/000/006/0044/0045 666.127:621.73.032*034

AUTHOR: Yefimova, L. B.; Kozlov, A. I.

TITLE: Heating of steel billets in molten glass

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 6, 1965, 44-45, and bottom half of insert facing p. 25

TOPIC TAGS: steel heating, moltep glass

ABSTRACT: Specimens of steel 45 (ATSI-1045) were heated up to 1160—1200C in a molten glass bath (crushed window glass), a molten salt BaCl2, or in a flame gas furnace in order to determine which method produces steel forgings with a minimum of scale and decarbonization. The decarbonization and grain size of specimens heated in molten glass or molten salt were similar, but the decarbonized layer of specimens heated in a gas furnace was 2.5—3 times thicker. The surface of specimens heated in molten glass becomes bright and is coated by glass film which protects it from scale formation during transportation and cooling. This glass film can be utilized as a lubricant during forging in order to increase the service life of dies. These advantages make possible maximum decrease allowances for machining, reduce cost and improve sanitary conditions. Orig. art. has: 2 figures and 1 table. [AZ] Card 1/2

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I-4

TEFIMOVA, USSR/Chemical Technology - Chemical Products and Their Application. Pesricides

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2323

Author : Paydin, D.M., Shabanova, M.P., Gamper, N.M., Yefimova, L.F. Inst

: All-Union Institute of Plant Protection

Title : Insecticidal Properties of Diethyl-(Ethylmercapto)-Ethyl-Dithiophcsphate (Preparation M-74).

Orig Pub : Tr. Vses. in-ta zashchity rast., No 7, 78-86,1957

Abstract : 0,0-diethyl-S-(beta-ethylmercaptoethyl)-dithiophosphate (M-74) induces 95-100% mortality of the bugs Eurygaster integriceps Put. (EI), at a concentration of 5 . 10-4%, of mealybugs Pseudococcus mortimus Ehrh., at a concentration of 5.10-3%; thiophos -- at concentration of 5.10-3 and 2.5 10-2, respectively, and mercaptophos at concentration above 5.10-2 and 1.5.10-2%. Treatment of wheat

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· USSR/Chemical Technology - Chemical Products and Their Application. Pesticides.

I-4

Abs Jour

Ref Zhur Khimiya, No 1, 1958, 2323

grain with 1.5 and 1.2% emulsion of M-74 produces 80% kill of EI one month after the treatment. Also investigated was the effect of M-74 on the pests of maize Agrictes obscurus S., Agriotes sputator L., Oscinella frit L.; on the red spider Metatetranychus ulmi Koch., on apple trees; the plum aphid Hyalopterus prumi F., on plum trees and on Prunus divaricata; and on the web-spinning mite Tetranychus sp., on roses and lemon trees.

Card 2/2

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; POLIKARPOW, Yu.M. PAVKIN D.M.;

SHABANOVA, M.P.; GAMPER, N.M.; YEFIHOWA, L.P.

Organophosphorus insecticides. Some analogues of 0, 0-diethyl - 6-ethylmercaptoethyldithiophosphate. (M-74), less toxic for the warmblooded. Dokl. AN SSSR 109 no.5:947-949 Ag. 1956.

1. Chlen-korrespondent Akademii nauk SSSR (for Kabachnik). 2.Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR i Vsesoyuznyy institut zashchity rastenty Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk imeni Lenina.

(Thiophosphates)

YEFIMOVA, L.F. SHABANOVA, M.P. (VIZR, LENINGRAD)

"Results of Tests of Preparations M_74 and Merkaptofos Against Suctorial Pests in the Garden and Greenhouse" (Rezul'taty ispytaniya preparatov M_74 i merkaptofosa protiv sosushchikh vrediteley v sadu i oranshereye)YEFIMOVA, L.F.

·Chemistry and Uses of Organcphosphorous Compounds (Khimiya i primeneniye fosfororganisheskilkh soyedneniy), Trudy of First Conference, 8-10 December 1955, Kazan, Pp. Published by Kazan Afril. AS USSR, 1957 514-517.

YEFIMOVA, L.F., PAYKIN, D.M., SHABANOVA, M.P. GAMPER, N.M. (VIZR, Leningrad)

"Insecticidal Properties of Some Organophosphorus Compounds" (Insektitsidnyye svoystva nekotorykh fosfororganicheskikh soyedineniy)

Chemistry and Uses of Organcphosphorous Compounds (Khimiya i primeneniye fosfororgantcheskikh covedneniy), Trudy of First Conference, 8-10 December 1955, Kazan, pp. Published by Kazan Afril. AS USSR, 1957 408-419,

YEFIMOVA, L.F.

USSR/General and Special Zoology - Insects.

P.

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30584

Author

Paykin, D.M., Shabanova, M.P., Hamper, H.M., Yefimova, L.F.

Inst

Title

Insecticidal Properties of Certain Organic Phosphorus

Combinations.

Orig Pub

: V sb.: Khimiya i primeneniye Fosphororgan. soyedineniy.

M., AN SSSR, 1957, 408-419

Abstract

: The following chemicals were tested for their contact action on the harmful eurygaster and the larvae of the sea farinaceous scale insects in the laboratories of the All-Union Institute for the Protection of Plants. Twenty four others of phosphoric and thiophosphoric acids, derivative ethers of thiophosphoric acid and four disulphides, ten ethers of thiophosphoric, dithiophosphoric and thiophosphorous acids (all the above listed combinations were

less toxic than thiophos), eight ethers of

Card 1/2

USSR/General and Special Zoology - Insects.

Ρ.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30584

> thiomphosphinic acid (they were not less toxic than Gd-18 thiophos and Gd-6 with a group of ethyl-mercapto in B-position and Gd-5 containing phenyl with a nitrogroup in P-position), twelve ethers of thiolphosphinic acid (not less toxic than thiophos Gd-7 with a group of ethylmercapto in B-position), nine derivative ethers of dithiophosphoric acid (M-0-9 with chlorine in B-position was most toxic) and nine B-mercaptoalkylic ethers of dithiophosphoric acid (M-74 with ethyl radicals at P and S was more toxic than thiophos and mercaptophos). The intraplant action on the curygaster of five others of thiolphosphinic acid (Gd-7 with a group of ethylmercapto in B-position were the most active) and of eight B-mercaptoalkylate ethers of dithiophosphoric acid (M-711 and M-42 were more toxic than mercaptophos and isosistox) was studied by the method of presowing moistening of the seeds of spring wheat.

Card 2/2

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49624

Author : Shibanova M.P., Yefimova L.F.

PROYED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R0019 CIA-RDP86-00513R001962410010-7"

M-74 and Mercaptophos Against Sucking Posts

in the Garden and Conservatory.

Orig Pub : V sb.: Khimiya i primeneniye fosfororgan. soyedinoniy. M., AN SSSR, 1957, 514-517

Abstract : Experiments conducted by the Institute of Plant Protection have demonstrated that spraying 6-7 year old apple trees with Hercaptophos and M-74 in a 0.05-0.1% concentration, during the period

when the red mite bred from winter eggs, eliminated the mites from the trees for 49 days. Spraying with 0.1% caulsions during the mass brooding of

Card : 1/2

USSR/General and Special Zoology. Insects. Injurious In- P sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49624

mites decreased by 94.7-98.1% the number of the posts on the 36th day. The leaves on treated trees were dark-green and in the control they fell off. The action of the preparations on mites did not spread from the sprayed branches to the unsprayed. Spraying of prunes with a 0.05% emulsion completely freed them of aphids in 27 days. When roses were sprayed in the conservatory with 0.08% emulsions, the effect of the preparations on the spider mites lasted more than 14 months. -- A.P. Adrianov

card : 2/2

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AUTHORS:

SOV/79-28-6-30/63 Kabachnik, M. I., Godovikov, N. N.,

Paykin, D. M., Shabanova, M. P., Gamper,

N. M., Yefimova, L. F.

TITLE:

Insecticides of Organophosphorus Compounds - Some Derivatives of Methylthiophosphinic- and Methyldithiophosphinic Acids (Fosforonganicheskiye insektitsidy,

nekotoryye proizvodnyye metiltiofosfinovoy i

metilditiofosfinovoy kislot)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp.

1568 - 1573 (USSR)

ABSTRACT:

The majority of phosphorus organic insecticides are derivatives of thiophosphoric-, dithiophosphoric- and pyrophosphoric acids (Refs 1 - 3). In publications also a few insecticides are described which are derivatives of phosphinic- and dithiophosphinic acids; among them are the methylphosphinates and methylthiophosphinates. The latter contain substituted aryl groups (Ref 4), the ethylxanthoylgroup, as well as other groups (Refs 4,5) and the

O-ethyl-O-p-nitrophenylester of phenylthiophosphinic acid

("E.P.N.") (Ref 6). This ester is the only insecticide

Card 1/3

Insecticides of Organophosphorus Compounds - Some Derivatives of Methylthiophosphinic - and Methyldithiophosphinic Acids

SOV/79-28-6-30/63

of the series of thiophosphinic acids which is of practical importance. Therefore it was of interest to the authors to synthesize derivatives of alkylthio- and alkyldithiophosphinic acids which have ester groupings analogous to those of well-known insecticides of thiophosphoric- and dithiophosphoric acid. The authors obtained from the dichloroanhydride of methylthiophosphinic acids the chloroanhydrides of the acid esters of methylthiophosphinic acid with methoxy-, ethoxy- and propoxygroups. Derivatives of methylthiophosphinic- and methyldithiophosphinic acid with groupings corresponding to well-known insecticides (Tiofos, Metafos, Karbofos, Potazanand Sistoks) were synthesized. The insecticide properties of the synthesized compounds were using the autumn ougs on the investigated in the laboratory plant "Eurygaster intergriceps Put" as well as the fullgrown caterpillars on the plant "Fseudococcus maritimus Ehrh". The insecticide effect of the mentioned synthesized compounds did not correspond to the activity of the known insecticides

Card 2/3

Insecticides of Organophosphorus Compounds - Some SOV/79-28-6-30/63 Derivatives of Methylthiophosphinic and Methyldithiophosphinic Acids

of thiophosphoric- and dithiophosphoric acids. Only the preparation Gd-18 (a metaphos. analog) exceeds the effect of Metafos (Metafos) in its application against the bug of the first mentioned plant. There are 3 tables and 8 references, 3 of which are Soviet.

SUBMITTED:

April 29, 1957

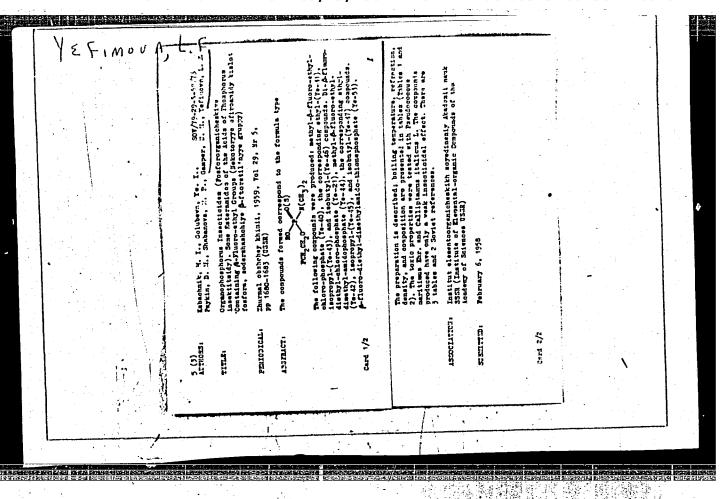
Insectidices—Synthesis
 Phosphorous compounds (organic)
 Synthesis

Card 3/3

9(3) Exhausts, H. I., Golubers, No. I., Gasper, H. F. Teffaors, L. F. AFFERS PRINTS, D. H., Enabasors, M. F., Gasper, H. H., Teffaors, L. F. Franciscopes and the colliders (performed the state of the following) FIRES. Companyors Insorting Source of the date of	presental cheated kitaii, 1939, vol 29, mr 5, mp 1671-1640 (vm.) presental cheated kitaii, 1939, vol 29, mr 5, mp 1671-1640 (vm.) presenta (fr1), p.parriver friendy-phosphire (fr2), f.pfriendy-phosphire (fr1), f.pfriendy-phosphire (fr1)), f.pfriendy-phosphire (fr1)), f.pfriendy-phosphire (fr1)), f.pfriendy-phosphire (fr1)), f.pfriendy-phosphire (fr1), f.pfriendy-friendy-phosphire (fr1), f.pfriendy-friendy-phosphire (fr1), f.pfriendy-friendy-phosphire (fr1), f.pfriendy-friendy-phosphire (fr1), f.pfriendy-friendy-phosphire (fr1), f.pfriendy-friendy-phosphire (fr1), f.pfriendy-friendy-friendy-phosphire (fr1), f.pfriendy-friendy-friendy-phosphire (fr1), f.pfriendy-friendy-friendy-phosphire (fr1), f.pfriendy-friendy-friendy-phosphire (fr1), f.pfriendy-friendy-friendy-friendy-phosphire (fr1), f.pfriendy-friend	(ve.), A-Timere-Listyl-estyl-phosphinate (ve.19), P. (1). distingue-distyl-estyl-phosphinate (ve.19), p(incretyl-estyl-estyl-phosphinate (ve.19), p(incretyl-estyl-estyl-phosphinate (ve.19), p(incretyl-estylestyl-estyl-estyl-estylestyl-estylestyl-estylestyl-estylestyl-estylestylestylestylestylestylestylestyl	saich are foriet. Associations institute absortorrentche bitth sorpeits of the institute of Elemental Organic Compounds of the beatest of Element Utsl.) Association Petruary 6, 1994	\$
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• 5 (3) AUTHORS:

507/79-29-7-19/83 Kabachnik, M. I., Godovikov, N. H., Paykin, D. M., Shabanova, M. P., Yefimova, L. F., Gamper, N. M.

TITLE:

Organophosphorous Insecticides (Fosfororganicheskiye insektitsidy). VI. Amidoesters of the Thio- and Dithiophosphoric Acids Containing a \beta-Ethyl Mercapto Ethyl Grouping (VI. Amidoefiry tiofosfornoy i ditiofosfornoy kislot, soderzhashchiye β-etilmerkaptoetil'nuyu gruppirovku)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2132-2190 (USSR)

ABSTRACT:

In 1936 G. Schrader (Ref 1) discovered the insecticide properties of the phosphoric- and thiophosphoric acid amides. The derivatives of the dialkyl amido- and dialkyl amidothiophosphoric acid of the type R₂N

, where R and R'

R'O denote alkyls and Ac substitutes of acyl character such as Cl, F, CN, CNO, CH3COO and others, which he synthesized show

contact insecticide properties of vegetative effect. Other compounds of similar type with the phenyl- (Refs 1, 2), azide (Ref 3), and other groups (Refs 4-7) followed. Most of the

Card 1/3

Organophosphorous Insecticides. VI. Amidoesters of 50V/79-29-7-19/83 the Thio- and Dithiophosphoric Acids Containing a (3-Ethyl Mercapto Ethyl Grouping

insecticides of phosphoric acid have only a weak contact- and a strong vegetative effect. Some of them are used in practical applications (Ref 8). On the other hand, it was of interest to examine this activity in the amido esters of thiophosphoric and dithiophosphoric acid with a \$-ethyl mercapto ethyl grouping since it could be assumed that they would also show a strong vegetative activity. These esters have hitherto remained unknown with few exceptions (Refs 11, 12). The compounds (I), (II), and (III), the first two of which were obtained as acid chlorides according to scheme 3, were used as initial products for these amido esters. In reacting the above acid chlorides with β-oxydiethyl sulphide in the presence of powder sodium hydroxide the thiophosphates (Gd-50), (Gd-52), and (Gd-64) (Scheme 4) resulted. The compounds obtained were isomerized into the thiophosphates (Gd-53), (Gd-54), and (Gd-66) at 160-170° during 8-10 hours (Scheme 5). Moreover, the thiophosphates (Cd-55) and (Cd-56) were synthesized by the reaction according to scheme 6. The constants and yields of the new insecticides are listed in table 1 (details are given in the

Card 2/3

Organophosphorous Insecticides. VI. Amidoesters of the SOV/79-29-7-19/63
Thio- and Dithiophosphoric Acids Containing a 6-Ethyl Mercapto Ethyl Grouping

experimental part and in tables 2 and 3). In heating tetramethyl diamidochlorophosphate with P₂S₅ tetramethyl diamidothiophosphate is formed by replacement of the oxygen atom by

sulphur. Some amido esters such as (Gd-53), (Gd-54), and (Gd-56) show a vegetative activity against spinning-mites. There are

3 tables and 17 references, 11 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR

(Institute of Elemental Organic Compounds of the Academy of

Sciences, USSR)

SUBMITTED: June 20, 1958

Card 3/3

KABACHNIK, M.I.; ROSSITSKAYA, P.A.; SHABANOVA, M.P.; PAYKIN, D.M.;

YEFIMOVA, L.F.; (AMPER, N.M.

Phosphoroorganic insecticides. Derivatives of decarbomyl compounds. Zhur.ob.khim. 30 no.7:2218-2223 Jl '60.

(MIRA 13:7)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.

(Insecticides) (Phosphorus organic compunds)

MASTRIUKOVA, T.A.; GEFTER, Ye.L.; KAGAN, Yu.S.; FAYKIN, D.M.; SHADANOVA, M.P.; GAMPER, N.M.; YEFIMOVA, L.F.; KAGACHIIK, M.I.

Phosphoroorganic insecticides. 3-Chlorobutenyl-2-phosphates and thiophosphates. Zhur. ob. khim. 30 no.9:2813-2816 S '60.

(MIRA 13:9)

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YEFIMOVA, L.F., mladshiy nauchnyy sotrudnik

Comparative evaluation of some acaricides. Zashch. rast. ot
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(Insecticides)

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	of Organophosphosphorus Composita) A. Yo. Arbusov, Ed. publ. by Kanan' Afril, Aced. Co	1.		
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ZHUKOVSKIY, S.G.; YEFIMOVA. L.F.; ROZANOVA, A.A., agronom; LOSEVA, V.G., agronom; RUDENKO, D.K., kand. sel'skokhoz. nauk; KAPUSTINSKIY, A.F., fittpatolog; MELESHKO, A.I., mladshiy nauchnyy sotrudnik Brief information. Zashch. rast. ot vred. i bol. 8 no.3:24,

53-54 Mr 163. 1. Vsesoyuznyy institut zashchity rasteniy (for Zhukovskiy, Yefimova, Rudenko, Meleshko). 2. Biolaboratoriya karantinnoy inspektsii UzSSR (for Rozanova, Loseva).

PERSIN, S.A., starshiy nauchnyy sotrudnik; YEFIMOVA, L.F., aspiratka; YEREMINA, L.K.; TITOVA, R.P.; SHAKIROVA, R.S.

Simultaneous placement of pesticides and fertilizers. Zashch. racing ot vred. i bol. 9 no.9:13 164.

1. Vsesoyuznyy institut zashchity rasteniy (for Persin). 2. Nachal'nik Kirovskogo otryada po zashchite rasteniy (for Yeremina). 3. Novosibirskaya stantsiya zashchity rasteniy (for Titova). 4. Starshiy agronom TSelinogradskoy stantsii zashchity rasteniy (for Shakirova).

PAVLENKO, V.V., nauchnyy sotrudrik; MAKASHINA, G.V., starshiy nauchnyy sotrudnik; G:EPRAVEXIY, O.F.; DAVLETSHINA, A.G. (Tashkent); YEFIMCVA, L.F. (Tashkent)

Brief news. Zashch. rast. ot vred. i bol. 9 no.12;48-49 '64. (MIPA 18:4)

1. Botanicheskiy sad i nepropetrovskogo universiteta (for Pavlenko).

2. Kaliningradskaya sel'skokhozyaystvennaya opytnaya stantsiya (for C. Kaliningradskaya sel'skokhozyaystvennaya (MIPA 18:4). (MIPA 18:4)

Makashina). 3. Institut fiziologii rasteniy AN UkrSSR (for Cherkavskiy).